Gang Sun

List of Publications by Year
in descending order

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112	3,003	136950	197818
papers	citations	32	49
		h-index	g-index

114	114	114	2824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PerFED-GAN: Personalized Federated Learning via Generative Adversarial Networks. IEEE Internet of Things Journal, 2023, 10, 3749-3762.	8.7	21
2	Deadline-Aware Fast One-to-Many Bulk Transfers over Inter-Datacenter Networks. IEEE Transactions on Cloud Computing, 2022, 10, 304-321.	4.4	10
3	ESync: Accelerating Intra-Domain Federated Learning in Heterogeneous Data Centers. IEEE Transactions on Services Computing, 2022, 15, 2261-2274.	4.6	11
4	Blockchain-Enabled Two-Way Auction Mechanism for Electricity Trading in Internet of Electric Vehicles. IEEE Internet of Things Journal, 2022, 9, 8105-8118.	8.7	27
5	Intersection-Based V2X Routing via Reinforcement Learning in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5446-5459.	8.0	38
6	Beamer: Stage-Aware Coflow Scheduling to Accelerate Hyper-Parameter Tuning in Deep Learning Clusters. IEEE Transactions on Network and Service Management, 2022, 19, 1083-1097.	4.9	4
7	RANCE: A Randomly Centralized and On-Demand Clustering Protocol for Mobile Ad Hoc Networks. IEEE Internet of Things Journal, 2022, 9, 23639-23658.	8.7	2
8	Toward Improving QoS and Energy Efficiency in Wireless Body Area Networks. IEEE Systems Journal, 2021, 15, 865-876.	4.6	6
9	Voting-Based Decentralized Consensus Design for Improving the Efficiency and Security of Consortium Blockchain. IEEE Internet of Things Journal, 2021, 8, 6257-6272.	8.7	30
10	Latency performance modeling and analysis for hyperledger fabric blockchain network. Information Processing and Management, 2021, 58, 102436.	8.6	116
11	A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. IEEE Internet of Things Journal, 2021, 8, 1971-1984.	8.7	11
12	TSEngine: Enable Efficient Communication Overlay in Distributed Machine Learning in WANs. IEEE Transactions on Network and Service Management, 2021, 18, 4846-4859.	4.9	4
13	Profit Maximization of Online Service Function Chain Orchestration in an Inter-Datacenter Elastic Optical Network. IEEE Transactions on Network and Service Management, 2021, 18, 973-985.	4.9	6
14	Security-SLA-guaranteed service function chain deployment in cloud-fog computing networks. Cluster Computing, 2021, 24, 2479-2494.	5.0	6
15	Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. IEEE Internet of Things Journal, 2021, 8, 10596-10607.	8.7	21
16	DGT: A contribution-aware differential gradient transmission mechanism for distributed machine learning. Future Generation Computer Systems, 2021, 121, 35-47.	7.5	9
17	Dynamic Network Function Provisioning to Enable Network in Box for Industrial Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 7155-7164.	11.3	16
18	Cost-Efficient Scheduling of Multicast Transfers with Deadline Guarantees Across Edge Datacenters. IEEE Transactions on Services Computing, 2021, , 1-1.	4.6	0

#	Article	IF	Citations
19	Reconfigurable Aggregation Tree for Distributed Machine Learning in Optical WAN. , 2021, , .		1
20	Privacy-preserving Aggregation Scheme for Blockchained Federated Learning in IoT. , 2021, , .		0
21	An Efficient Blockchain PBFT Consensus Protocol in Energy Constrained IoT Applications. , 2021, , .		8
22	Service Function Chain Deployment Based on Candidate Paths. , 2021, , .		2
23	Protocol Fuzzing With Specification Guided Message Generation. , 2021, , .		1
24	Deep Learning Framework Fuzzing Based on Model Mutation. , 2021, , .		4
25	Intersection Fog-Based Distributed Routing for V2V Communication in Urban Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2409-2426.	8.0	50
26	Towards Yo-Yo attack mitigation in cloud auto-scaling mechanism. Digital Communications and Networks, 2020, 6, 369-376.	5.0	6
27	Low-Latency and Resource-Efficient Service Function Chaining Orchestration in Network Function Virtualization. IEEE Internet of Things Journal, 2020, 7, 5760-5772.	8.7	61
28	Toward Incentivizing Fog-Based Privacy-Preserving Mobile Crowdsensing in the Internet of Vehicles. IEEE Internet of Things Journal, 2020, 7, 4128-4142.	8.7	28
29	Job scheduling for distributed machine learning in optical WAN. Future Generation Computer Systems, 2020, 112, 549-560.	7.5	8
30	Attention distribution guided information transfer networks for recommendation in practice. Applied Soft Computing Journal, 2020, 97, 106772.	7.2	3
31	Grouper: Accelerating Hyperparameter Searching in Deep Learning Clusters With Network Scheduling. IEEE Transactions on Network and Service Management, 2020, 17, 1879-1895.	4.9	2
32	Blockchain-Enhanced High-Confidence Energy Sharing in Internet of Electric Vehicles. IEEE Internet of Things Journal, 2020, 7, 7868-7882.	8.7	66
33	Online job scheduling for distributed machine learning in optical circuit switch networks. Knowledge-Based Systems, 2020, 201-202, 106002.	7.1	6
34	FBIA: A Fog-Based Identity Authentication Scheme for Privacy Preservation in Internet of Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 5403-5415.	6.3	46
35	PSNet: Reconfigurable network topology design for accelerating parameter server architecture based distributed machine learning. Future Generation Computer Systems, 2020, 106, 320-332.	7.5	11
36	Energy-Efficient Provisioning for Service Function Chains to Support Delay-Sensitive Applications in Network Function Virtualization. IEEE Internet of Things Journal, 2020, 7, 6116-6131.	8.7	55

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37	Special issue on fog/edge computing in Enterprise Multimedia Security [SI 1138T]. Multimedia Tools and Applications, 2020, 79, 10699-10700.	3.9	1
38	Analytical Exploration of Energy Savings for Parked Vehicles to Enhance VANET Connectivity. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1749-1761.	8.0	30
39	Blockchain Meets VANET: An Architecture for Identity and Location Privacy Protection in VANET. Peer-to-Peer Networking and Applications, 2019, 12, 1178-1193.	3.9	51
40	Location Privacy Preservation for Mobile Users in Location-Based Services. IEEE Access, 2019, 7, 87425-87438.	4.2	45
41	Toward SLAs Guaranteed Scalable VDC Provisioning in Cloud Data Centers. IEEE Access, 2019, 7, 80219-80232.	4.2	14
42	Software-Defined MANET Swarm for Mobile Monitoring in Hydropower Plants. IEEE Access, 2019, 7, 152243-152257.	4.2	14
43	Online Parallelized Service Function Chain Orchestration in Data Center Networks. IEEE Access, 2019, 7, 100147-100161.	4.2	33
44	Optimal Energy Trading for Plug-In Hybrid Electric Vehicles Based on Fog Computing. IEEE Internet of Things Journal, 2019, 6, 2309-2324.	8.7	39
45	Priority-Based Medium Access Control for Wireless Body Area Networks With High-Performance Design. IEEE Internet of Things Journal, 2019, 6, 5363-5375.	8.7	26
46	Security and privacy preservation in fog-based crowd sensing on the internet of vehicles. Journal of Network and Computer Applications, 2019, 134, 89-99.	9.1	58
47	Flow-aware explicit congestion notification for datacenter networks. Cluster Computing, 2019, 22, 1431-1446.	5.0	2
48	Mobile-aware service function chain migration in cloudâ€“fog computing. Future Generation Computer Systems, 2019, 96, 591-604.	7.5	28
49	V2V Routing in a VANET Based on the Autoregressive Integrated Moving Average Model. IEEE Transactions on Vehicular Technology, 2019, 68, 908-922.	6.3	61
50	Towards privacy preservation for â€œcheck-inâ€•services in location-based social networks. Information Sciences, 2019, 481, 616-634.	6.9	34
51	Cost-Efficient Service Function Chain Orchestration for Low-Latency Applications in NFV Networks. IEEE Systems Journal, 2019, 13, 3877-3888.	4.6	50
52	Energy-efficient and traffic-aware service function chaining orchestration in multi-domain networks. Future Generation Computer Systems, 2019, 91, 347-360.	7.5	89
53	AI-based software-defined virtual network function scheduling with delay optimization. Cluster Computing, 2019, 22, 13897-13909.	5.0	14
54	AI-based survivable design for hybrid virtual networks for single regional failures in cloud data centers. Cluster Computing, 2019, 22, 12009-12019.	5.0	5

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55	Live Migration for Multiple Correlated Virtual Machines in Cloud-Based Data Centers. IEEE Transactions on Services Computing, 2018, 11, 279-291.	4.6	67
56	Energy-efficient virtual content distribution network provisioning in cloud-based data centers. Future Generation Computer Systems, 2018, 83, 347-357.	7.5	22
57	Location and trajectory privacy preservation in 5G-Enabled vehicle social network services. Journal of Network and Computer Applications, 2018, 110, 108-118.	9.1	54
58	Guest Editorial: Security and Privacy for Multimedia in the Internet of Things (IoT). Multimedia Tools and Applications, 2018, 77, 18201-18202.	3.9	2
59	Bus-Trajectory-Based Street-Centric Routing for Message Delivery in Urban Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7550-7563.	6.3	65
60	A Reliability-Aware Approach for Resource Efficient Virtual Network Function Deployment. IEEE Access, 2018, 6, 18238-18250.	4.2	37
61	Low-latency orchestration for workflow-oriented service function chain in edge computing. Future Generation Computer Systems, 2018, 85, 116-128.	7.5	50
62	Towards provisioning hybrid virtual networks in federated cloud data centers. Future Generation Computer Systems, 2018, 87, 457-469.	7.5	28
63	Towards efficiently migrating virtual networks in cloud-based data centers. Photonic Network Communications, 2018, 35, 151-164.	2.7	2
64	The cost-efficient deployment of replica servers in virtual content distribution networks for data fusion. Information Sciences, 2018, 432, 495-515.	6.9	36
65	Energy Efficient Deployment of a Service Function Chain for Sustainable Cloud Applications. Sustainability, 2018, 10, 3499.	3.2	5
66	A Q-Learning-Based Approach for Deploying Dynamic Service Function Chains. Symmetry, 2018, 10, 646.	2.2	29
67	Towards Resource-Efficient Service Function Chain Deployment in Cloud-Fog Computing. IEEE Access, 2018, 6, 66754-66766.	4.2	16
68	Service Function Chain Orchestration Across Multiple Domains: A Full Mesh Aggregation Approach. IEEE Transactions on Network and Service Management, 2018, 15, 1175-1191.	4.9	87
69	The efficient framework and algorithm for provisioning evolving VDC in federated data centers. Future Generation Computer Systems, 2017, 73, 79-89.	7.5	32
70	Soft Zr-doped TiO2 Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. Scientific Reports, 2017, 7, 1636.	3.3	101
71	Towards Location and Trajectory Privacy Preservation in 5G Vehicular Social Network. , 2017, , .		7
72	The framework and algorithm for preserving user trajectory while using location-based services in IoT-cloud systems. Cluster Computing, 2017, 20, 2283-2297.	5.0	27

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73	Efficient location privacy algorithm for Internet of Things (IoT) services and applications. Journal of Network and Computer Applications, 2017, 89, 3-13.	9.1	128
74	User-defined privacy location-sharing system in mobile online social networks. Journal of Network and Computer Applications, 2017, 86, 34-45.	9.1	60
75	L2P2: A location-label based approach for privacy preserving in LBS. Future Generation Computer Systems, 2017, 74, 375-384.	7.5	73
76	Network function consolidation in service function chaining orchestration. , 2016, , .		37
77	k-DLCA: An efficient approach for location privacy preservation in location-based services. , 2016, , .		14
78	A new approach for preparing SiC particle-reinforced aluminum matrix composites by applying electromagnetic field. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 717-721.	1.0	8
79	A new technique for efficient live migration of multiple virtual machines. Future Generation Computer Systems, 2016, 55, 74-86.	7.5	93
80	Protecting User Trajectory in Location-Based Services. , 2015, , .		10
81	On the deployment of information-centric network: Programmability and virtualization. , 2015, , .		6
82	Energy and performance management in large data centers: A queuing theory perspective. , 2015, , .		11
83	Antibacterial Surgical Silk Sutures Using a High-Performance Slow-Release Carrier Coating System. ACS Applied Materials & Interfaces, 2015, 7, 22394-22403.	8.0	86
84	Power-Efficient Provisioning for Online Virtual Network Requests in Cloud-Based Data Centers. IEEE Systems Journal, 2015, 9, 427-441.	4.6	49
85	Efficient Provisioning of Hybrid Virtual Network with Stochastic Resource Demands. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2014, 31, 342-352.	3.2	5
86	Opportunistic provisioning for multicast virtual network requests. , 2014, , .		3
87	Multiple topologies routing for improving service management in OSPF networks. , 2014, , .		0
88	Survivable mapping for multicast virtual network under single regional failure. , 2014, , .		2
89	Design of reliable virtual infrastructure using local protection. , 2014, , .		1
90	Cost efficient survivable multicast virtual network design. , 2014, , .		1

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91	Large-scale fabrication of highly aligned poly(m-phenylene isophthalamide) nanofibers with robust mechanical strength. RSC Advances, 2014, 4, 45760-45767.	3.6	36
92	Survivable provisioning for multicast service oriented virtual network requests in cloud-based data centers. Optical Switching and Networking, 2014, 14, 260-273.	2.0	15
93	Local protection: A cost efficient technique for reliable virtual infrastructure design. Optical Switching and Networking, 2014, 11, 154-166.	2.0	1
94	Reliable Design for Stochastic Multicast Virtual Network in Data Centres. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2014, 31, 327-341.	3.2	1
95	Protecting User Trajectory in Location-Based Services. , 2014, , .		2
96	A cost efficient framework and algorithm for embedding dynamic virtual network requests. Future Generation Computer Systems, 2013, 29, 1265-1277.	7.5	79
97	Survivable virtual infrastructure mappings in multi-datacenter systems. , 2013, , .		0
98	Quality of service aware virtual network mapping across multiple domains. , 2013, , .		1
99	Adaptive provisioning for evolving virtual network request in cloud-based datacenters. , 2012, , .		8
100	Efficient Online Virtual Network Mapping Using Resource Evaluation. Journal of Network and Systems Management, 2012, 20, 468-488.	4.9	11
101	Optimal provisioning for elastic service oriented virtual network request in cloud computing. , 2012, , .		13
102	Optimal provisioning for virtual network request in cloud-based data centers. Photonic Network Communications, 2012, 24, 118-131.	2.7	27
103	Exploring Power-Efficient Provisioning for Online Virtual Network Requests. , 2012, , .		3
104	Exploring online virtual networks mapping with stochastic bandwidth demand in multi-datacenter. Photonic Network Communications, 2012, 23, 109-122.	2.7	32
105	The Framework and Algorithms for the Survivable Mapping of Virtual Network onto a Substrate Network. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2011, 28, 381.	3.2	20
106	Cost Efficient Design of Survivable Virtual Infrastructure to Recover from Facility Node Failures. , 2011, , .		93
107	Cost efficient virtual infrastructure mapping using subgraph isomorphism. Proceedings of SPIE, 2010, , .	0.8	10
108	Survivable Virtual Infrastructure Mapping in a Federated Computing and Networking System under Single Regional Failures. , 2010, , .		73

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109	Cost efficient virtual infrastructure mapping using subgraph isomorphism. , 2010, , .		5
110	Efficient algorithms for survivable virtual network embedding. , 2010, , .		14
111	A distributed algorithm for optimal network resource allocation considering delay sensitive traffic. , 2010, , .		0
112	Fast recovery for online service function chaining interruption using adaptive migration. Cluster Computing, 0, , 1.	5.0	1